

ORIGINAL 330 (Red)

, R-585-7-8-29
SITE VISIT SUMMARY REPORT
FOR
ITT GRINNELL
PREPARED UNDER

TDD NO. F3-8806-06 EPA NO. PA-335 CONTRACT NO. 68-01-7346

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

JULY 22, 1988

NUS CORPORATION SUPERFUND DIVISION

Site Name: ITT Grinnell TDD No.: F3-8806-06

ORIGINAL (Red)

1.0 FIELD TRIP REPORT

1.1 Summary

On Wednesday, July 13, 1988, NUS staff members Denice Taylor, Peter Uhlman, Claire Olsovsky, Brian Lipsitz, Joseph Garzio, and Jeffrey Slivka performed environmental sampling in support of the site investigation at the ITT Grinnell facility in Columbia, Lancaster County, Pennsylvania. The field team was accompanied by ITT Grinnell representatives Michael Millhouse, Joseph Sutor, and Terry Wittenberg. Pennsylvania Department of Environmental Resources Superfund inspector David Vollero was also informed of the field schedule. Weather conditions were clear and sunny, with

temperatures between 85°F to 90°F.

A total of seven aqueous and five solid samples, including blanks and duplicates, were collected (see

figure 3, attachment 1, for on-site sample locations).

Deviations from the Sampling Plan

One additional auger sample was collected from a previously unidentified inactive lagoon.

The solid duplicate sample was also collected from this location.

1.2 Persons Contacted

1-1

Site Name: ITT Grinnell TDD No.: F3-8806-06

ORIGINAL

1.3 Site Observations

No above-background HNU or mini-alert readings were recorded.

• There are three on-site lagoons located at the northern end of the property. The active lagoon is approximately 303 by 55 feet and is closest to an adjacent unnamed tributary to Shawnee Run. The larger of the inactive lagoons is 30 feet south of the active lagoon and is approximately the same size. The older, inactive lagoon is located to the west of the other lagoons, near the tree line. Its dimensions are unknown; however, it appears to have been approximately 63 feet in length. Both inactive lagoons have been backfilled and are revegetated. No stained areas were observed.

 Ponded water was observed in the larger inactive lagoon area. Although several springs reportedly originate from the slope below the present wastewater treatment plant, none were observed by NUS staff members.

 The lagoon area is flat (minimal slope). Surface water appears to drain to the active lagoon, which discharges to an unnamed tributary of Shawnee Run. The tributary joins Shawnee Run approximately 200 to 250 yards to the west of the site.

Access to the lagoon area is restricted by a chain-link fence.

A drum storage area was observed to the east of the lagoon area, near the plant buildings.
 Some drums were being stored on the ground while others were stored on pallets. The drums are reportedly empty hydraulic oil containers.

OPIGINAL Podj

ATTACHMENT 1

8802-21-11

TDD No.: F3-8802-21

Site Name: ITT Grinnell (Red)

(3/8/88)

SITE SAFETY PLAN

	nnell	Contact: Mike Millhouse		
Address: 1411 Lancaster Avenue Columbia, PA 17512		Phone Number: <u>(717) 684-4400</u> Other Contacts:		
Purpose of Site Visit:	Site Recon			
	3/14/88			
Proposed Site Investigation				
NUS Personnel	Re	sponsibilities:		
	· · · · · · · · · · · · · · · · · · ·			

Site Name: ITT Grinnell
Background Information:
Site Status:ActiveUnknown
Site Description (be specific, include topography, structures, etc.):
Site is located on Rte 462 in Columbia, PA. ITT Grinnell
Corporation is an active foundry which makes tight fittings
and castings for automotive parts. The site has a galvaniza
plant in which they operate an acid pickling department
with a heutralization treatment area. The waste water
is passed into a treatment plant, where it is ultimately
discharged into an adjacent stream.
Site History: Site has been in operation since the early 1950's. The Grinnell Corporation Currently holds a NPDES permit
and has RCRA generator status. The company also has
air permits following emission standards. The company
has been found inviolation of the NPDES on two occasions. The Grinnell Corp. used to have lagoons for waste
water discharge.
Monitoring used on previous site work or previous sampling data: No monitoring or sampling data Known

ORIGINAL (Red)

TDD No.: 8803-21

			100 (10.:	00000
			Site Name: _	ITT Gring (Red)
Hazard Evaluation			,	
Waste Types:	Liquid	_Solid	Sludge	Vapor
Characteristics:	✓Corrosive	_Ignitable	Radioactiv	/e
	Volatile	Toxic	Reactive	
	Unknown	Other		
		_		
Task: Site Survei	Ilance & Compilation C	f photo lo	걥 Medium	High
Waste on site 1 and NaoH used	tact with the	Hz50y us 10n. F	1. 000	pickling processes expect to come ere these wastes
	zards/Hazard Assess	ments		
Taeke	Lo	•••	Madium	High
	zards/Hazard Assess		.vied10111	g
Task:	Lo	w	Medium	High
Identification of Ha	zards/Hazard Assess	ment:		
OVERALL HAZARI	D:Serious	_Moderate		
	<u></u>			
		2 -416		

TDD No.: 8803-31

Site Name: ITT Grinnell

Hazardous/Toxic Known or Suspected Materials	Concentration	Me dia	Toxic and Pharmacologic Effects	PEL, TLV, IDLH	Reactivity, Special Stability, Monitor Flammability Instrument	in
Hydrochloric HCI Acid	unknown		Eye, skin & respiratory hazard Corroque to Skin i Mulius membranes	PEL Sppin TLV Sppin TDLH ICOppin	highly reactive withmost metals	
(Southware Acid)			Eye, skin & respiratory hazard/drrttat	PEL imglm3 air TLV imglm3 air IDLH 8 cinglm3	highly reactive corresive Incompatible with organics,	
Na 01+ Sodium Hydrox	unknown	ligord	Eye skin é respiratory hazard	PEL 2mg/m3 TLV uniknown IDLH 200 mg/m3	onlorates, carbides, Sulminates, picrates & metals Incompatible with water, organic halogens, metals, & nitro Compound;	

Sulfunic Acid

Justion causes Pulm. Redema

				TDD No.:	8803-31
REQUIRED LEVEL(Site Name:	ITT Grinnell
Task Site Surveille	Respiratory	Clothing	Gloves	Boots	Other; Modifications
PM Photolog compilatio		E	None	\underline{W}	
SSO	D	F	None	- W	
SMO		-			
Surveillance (PA site recon etc	A A	<u>F</u>	None None	_ w	If HNU readings exceed background, leave area e observe from a location where HNU readings do not exceed background.
					Hard hat & safety gasses will be worn in all areas required by Grinnell Corp
Other			*******		

Decon			**********		
		Cotton=C Field=F Saranex=S	Butyl=B Cotton=C Latex=L	Firei Late	nan's=F

TDD No.: 8803-21 (Red) Site Name: TTT Grinne 11 Proposed On-site Activities: Site Surveillance & Compilation of Photolog Monitoring Procedures: Site Monitoring Equipment: TLD Badge HNU V OVA (y awailable) Radiation mini-alert ___ Photovac Explosimeter ___ Draeger Tube & Pump ___O_{2 meter} Victoreen Radiation Detector Methods and Frequency of Surveillance: (For compounds > 10% PELs, see page 4) Continuous monitoring of HNU & mini-alert Monitoring Equipment Calibration: As per manufacturer's recommendations, a field calibration is necessary once every three days. Calibration dates are recorded in the project logbook. OVA (uf available)
As per manufacturer's recommendations, a field calibration is necessary every three days. Calibration dates are recorded in the project logbook. A battery check and a response check were made prior to leaving the FIT office and will be made immediately prior to instrument use in the field. This field procedure will be documented in the log book. Other

ORIGINAL

TDD N	lo.:	8803-31	

mination and D	
	Personnel Decontamination Procedure: (X) level to be utilized
_ Level A -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit and hard hat removal, SCBA backpack removal, inner glove wash, inner glove removal, inner clothing removal, field wash redress.
_ Level B -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, SCBA backpack removal, suit and hard hat removal, inner glove removal, inner clothing removal, field wash, redress.
_ Level C -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit/safety boot wash, suit/safety boot rinse (Canister or Mask Change), safety boot removal, splash suit removal, inner glove removal, inner clothing removal, field wash, redress.
_ Level D -	Segregated equipment drop, boot and glove wash, boot and glove rinse.
No personne	I decontamination is necessary.
_ Modification	s (specify):

E will need decontamination

Disposal Procedure for Investigation Derived Materials: It is not expected that any derived materials will breed decontamination

IONIZING RADIATION: Normal background 0.01 to 0.02 mR/hr

If less than 2 mR/hr, continue investigation with caution.

If greater than 2 mR/hr, evacuate site.

*Note: Background 10-20 CPM on mini-alert

7 01 16

ממד	No.:	8809-8	2

Site Name:	ITT	Grinnell	
•••			_

SITE OPERATING PROCEDURES/SAFETY GUIDELINES

- 1. Always observe the buddy system. Never enter or exit a site alone, and never work alone in an isolated area. Never wander off by yourself.
- Always maintain line-of-sight.
- 3. Practice contamination avoidance. Never sit down or kneel, never lay equipment on the ground, avoid obvious sources of contamination such as puddles, and avoid unnecessary contact with on-site objects.
- 4. No eating, drinking, or smoking outside the designated "clean" zone.
- 5. In the event PPE is ripped or torn, work shall stop and PPE shall be removed and replaced as soon as possible.
- 6. Be alert to any unusual changes in your own condition; never ignore warning signs. Notify Health and Safety Co-ordinator as to suspected exposures or accidents.
- 7. A vehicle will be readily available exclusively for emergency use. All FIT personnel going on site shall be familiar with the most direct route to the nearest hospital.
- 3. In the event of direct skin contact, the affected area shall be washed immediately with soap and water.
- 9. Copies of the health and safety plan shall be readily accessible at the command post.
- 10. Note wind direction. Personnel shall remain upwind whenever possible during on-site activities.
- 11. Never climb over or under refuse or obstacles. Use safety harness/safety lines when sampling lagoons, stream beds, and ravines with steep banks.
- 12. Hands and face must be thoroughly washed before eating, drinking, etc.
- 13. Any modifications to this safety plan <u>MUST</u> be approved by the RHSM or designee.

			5110181	C			
Special Pr	ocedures:	None					
It H	NU Rea	dings exceed	backgi	round,	<i>leave</i>	the a	irea and
observe	From	a location	where	HNO	readi	195 c	lo not
exceed	back	ground					
Lue C	us esca	se sacks	well t	n car	ried y	or	
$\overline{}^{v}$ as	ll on s	pe packs its procee	dines.		l!		
	•	, _					

aat	No.:	8803-2

Site Name: ITT Grinnell

Confined	Space	Entry

No attempt will be made to enter abandoned buildings, manholes, tanks, or any other confined areas.

__ Other:

Medical Surveillance

No site specific medical surveillance is required for this task.

___ Medical surveillance will be as follows:

Personnel Monitoring

Personnel monitoring will include only the use of the TLD badge. No further personnel monitoring is required.

____ Personnel monitoring will consist of:

URIGINAL (Red)

100 110.:
Site Name: ITT Grinnel)
Communication Procedures:
(Horn blast, siren, etc.) is the emergency signal to indicate that all personnel should leave the Exclusion Zone.
The following standard hand signals will be used in case of failure of radio communications:
Hand gripping throat Out of air, can't breathe
Grip partner's wrist or Leave area immediately both hands around waist
Hands on top of head Need assistance
Thumbs up OK, I am all right, I understand
Thumbs down No, negative
The following will be used on an "as-needed" basis: N/A
Channel has been designated as the readio frequency for personnel in the
Exclusion Zone. All other on-site communications will use channel
Telephone communication to the Command Post should be established as soon as practicable. The phone number is

ORIGINAL (Red)

										,		\	1
10PC	. E	DATE	DATE /	DATE	DATE	DATE	DATE	DATE /	*****		1	DATE	DATE
WIRODUCTION	5	3/16/87	319187										
SAMMING													
DECONTAMMATION	-												
Пер	7	->>	\rightarrow										
FIRST AID	8	±श्रीक्ष्र) स्थिक्ष्ण	+8(<)		·								
14. 0	8	618 by 61887	6/8/87										
SCBA REVIEW	٣	NA	8 12187						-				
FIT TEST (Ultra-tuin)		101487	18/08										
FIT TEST (Dustfor)	0.5	#8/11/e1	13/1/61										

TDD No.: 8862-21 (Red)
Site Name: TTT Grinnell

EMERGENCY SITUATIONS

Air Releases or Fire/Explosion:

In the event of an unexpected air release or fire/explosion, on-site personnel will travel at a right angle to the upwind direction. The Site Safety Officer (SSO) will then account for all personnel and notify the proper emergency agencies.

In the event the SSO is unavailable, the Project Manager will assume these responsibilities.

Emergency Site Control:

In the event of an emergency, the SSO will discourage any unauthorized personnel from entering the site. If necessary, the SSO will contact the proper authorities.

Personnel Injury:

If on-site personnel require emergency medical treatment, the following steps will be taken:

- 1) Evaluate the nature of the injury.
- 2) Decontaminate to the extent possible prior to administration of first aid or movement to emergency facilities.

First Aid Procedures:

Skin Contact: Remove contaminated clothing. Wash immediately with

water. Use soap if available.

Inhalation: Remove from contaminated atmosphere. Artificial

respiration, if necessary. Transport to hospital.

Ingestion: Never induce vomiting on an unconscious person. Also, never

induce vomiting when acids, alkalis, or petroleum products are

suspected. Contact the poison control center.

Equipment Failure: In the event that air monitoring equipment fails to operate, all

personnel will exit the site immediately and notify the RHSM

or designee for further instructions.

TDD No.:	8809	1-91	ORIGINAL
Site Name:	ITT	Grinnell	_ (Red)

The MSDSs identified below are applicable to the Site Recon	(SI, PA, site
recon) etc.) for the ITT Grinnell (site name) (TDD No. F3-8802-21):	

ŧ.	acetone alcohol anhydrous* air (breathing) alconox amyl acetate (banana oil) carbon monoxide gas gasoline hexane hydrogen isopropyl alcohol magnesium perchlorate* mercuric acetate powder* methanol nitric acid nitrogren pH buffer 4.0 pH buffer 10.0 phosphoric acid* smoke tubes sodium hydroxide spray paint* stannic chloride sulfuric acid* 1,1,1-trichloroethane
	 zinc acetate dihydrate
	hyarodioi ic acie

VOA Standards

benzene
 toluene
 carbon tetrachloride
trans-1,2-dichloroethene*
 trichloroethene*
tetrachloroethene*
vinyl chlorid e
o-xylene
m-xylene
 p-xylene
chloroform
ethyl benzene

*Not presently available

TDD No.:	8809-	91	ORIGINAL
Site Name:	TTT	Grinn	ell(Red)
			A STATE OF THE PARTY OF THE PAR

Emergency Information:

Loca	I R	250	ur	CE	s:
LUCA		C3U	u	-	•

	Ambulance (Name): Columbia Hospital (Name): Columbia		Phone Phone	684-
	Police (Local or State): Columbia Fire Department (Name & Volunteer?): Radio Channel	Fire	Phone Deptof Glumba Phone	
	Nearest Phone: on site			
Off	ice Resources:			
	Region III FIT Office		(215)	87-9510

- o Poison Information Center...... (215) 922-5523
- o National Response Center......(800) 424-8802 (FOR ENVIRONMENTAL EMERGENCY ONLY)

Directions to Hospital (Attach Map):	Follow THE 321	West	(Lincoln Highway
(This will change names to 5th St	in city limits.	into	Columbia.
Turn right onto Poplar St.			



University of Pittsburgh

SCHOOL OF MEDICINE Department of Medicine Program in Occupational Medicine

Emergency Physician Access Plan

NUS Corporation, Superfund Division

December, 1986

A. MONDAY THROUGH FRIDAY, 9:00 A.M. - 5:00 P.M.

Dial the (412) 648-3240 number. When answered state that:

- (1) you are calling from NUS Corporation;
- (2) this is an emergency call.

Program Staff will be alerted how to contact the physician designated to provide emergency covereage on that day. Collect calls will be accepted.

B. EVENINGS, WEEK-ENDS & HOLIDAYS:

Dial the (412) 648-3240 number. An operator from the answering service will answer the telephone. Do the following:

- (1) tell the operator that you are calling from NUS Corporation
- (2) tell the operator that this is an emergency call
- (3) give her your name
- (4) give her the telephone number where the physician is to call. Be certain that she has written the correct number (area code and seven digits)
- (5) if you do not receive a call back within 15 minutes, place a second call to (412) 648-3240

Collect calls will be accepted.

C. SITUATIONS WHERE EMPLOYEE REQUIRES IMMEDIATE TRANSPORT TO A HOSPITAL:

If the situation is life-threatening, ie., cardiac arrest or person not breathing, call the emergency medical services system and transport the person to the nearest hospital with advanced life support capabilities.

After obtaining assistance as stated above, call the (412) 648-3240 number and follow the procedures in A or B as appropriate.

ORIGINAL (Red) inspection at the site.TI
provide the initi ine if the site poses he environment.
s as follows.
relevant
to EPA for approval. ange for site access. and sampling. to standard protoco t, due two weeks
omit data summaries

Assignment Description	(Red) FIT 3 has been assigned to conduct a site inspection at the			
		rr Grinnell site.		
	obj	ective of a site inspection is to provide the init		
	cha	racterization of the site and determine if the site pose		
en e	pot	ential threat to the public health or the environment.		
Task Breakdown	The	task breakdown of a site inspection is as follows.		
	1)	Review background information.		
	2)	Contact state and local agencies for relevant		
		information.		
	3)	Prepare and submit sampling plan to EPA for approval		
	4)	Coordinate laboratory analysis. Arrange for site access		
	5)	Conduct on- and off-site inspection and sampling.		
	6)	Collect and ship samples according to standard protoco		
	7)	Prepare and submit field trip report, due two weeks		
		after site inspection.		
	8)	Perform QA of laboratory data; submit data summarie		
r		and maps upon completion of QA.		
•	9)	Prepare and submit report; in the cover letter, include		
		recommendations for need of HRS.		
	10)	Address peer review comments and submit final report		
Estimated Technical Hours		e estimated hours for completing this project are		

H25 __.

Costs and Sudget Management

Compute the estimated cost associated with the analytical support required:

J.L

Type of Analysis	<u>Unit Cost</u>	No. of Samples	Total Analysis
HSL Organics	\$850.00	11	9350
Pesticide/PCB			
Extraction and Analysis	\$264.000		
BNA Extraction			
and Analysis	\$352.00		
Volatile Organics	\$203.00	1	. 203
Inorganics	\$150.00	//	1650
Dioxin	\$350.00		, , , ,
Other:			
	Total estimated of analysis requ	i cost uest	
ese quotes are used	of analysis requ		
	of analysis requ for estimating only a	//,203	
Subcontra	of analysis requ for estimating only a	nd are subject to price que Not applicable	
<u>Subcontra</u> Estimated	of analysis requirements of analysis requirements only and ctor Costs	nd are subject to price que Not applicable	
Subcontra Estimated posed Schedule/Ba	of analysis requirements of analysis requirements only an arrow of the contracting costs:	nd are subject to price que Not applicable	
Subcontra Estimated posed Schedule/Bac	of analysis requirements of analysis requirements only an arrow ctor Costs Subcontracting Costs:	nd are subject to price que Not applicable	
Subcontra Estimated posed Schedule/Bac	of analysis requirements of analysis requirements only an external contracting Costs: ckground Data/Data And ed site safety plan	nd are subject to price que Not applicable	
Subcontra Estimated posed Schedule/Bac See attach uired Resource List	of analysis required for estimating only an ector Costs Subcontracting Costs: ckground Data/Data And ed site safety plan No limited resource	nd are subject to price que Not applicable Assessment Summary	ote changes for ana
Subcontra Estimated posed Schedule/Bac See attach uired Resource List	of analysis required for estimating only an ector Costs Subcontracting Costs: ckground Data/Data And ed site safety plan No limited resource	nd are subject to price qui Not applicable Assessment Summary	ote changes for ana

Quality Assurance Applicability

The following sections of the Superfund Division Quality Assurance Manual apply to the performance of this assignment.

	QAP	2.5	Work Plans
		3.1	Collection of Evidentiary Field Data
		3.2	Data Reduction, Validation, and Reporting of Evidentiary Data
	,	4.1	Off-Site Reconnaissance
		4.2	On-Site Inspection
		5.1	Preparation of Procurement Documents
		5.2	Subcontractor Quality Assurance Requirements
		6.1	Control of Subcontractor Procurement Activities
		6.2	Evaluation and Selection of Subcontractors
	;	8 . 1	Controlled and Accountable Documents
	;	8.2	Issuance and Distribution of Controlled Documents
		8.4	Technical Reports
		9.1	Chain-of-Custody
	(9.2	Sample Control
DT 1518	ِ الا	0.1	Analysis Techniques
	1	1.1	Implementation of Measuring and Test Equipment Controls
	13	2.1	Packaging, Marking, Labeling, and Shipping of Samples from
			Hazardous Waste Sites
	1:	3.1	Nonconformance Reporting, Evaluation, and Disposition
	14	4.1	Implementation and Documentation of Corrective Actions
	19	5.1	Storage and Retrieval of Quality Assurance Records and Project
			Files

Quality Control Requirements

The FIT 3 Regional Operations Manual Standard Operating Procedures and Guidelines indicated will control the quality of all project-related work performed.

1. Sampling Procedures

 SOG II	Soil Sampling
 SOG 12	Sediment Sampling
 SOG 13	Surface Water Sampling
 SOG 14	Groundwater Sampling
 SOG 15	Purging of Monitoring Wells
 SOG 16	Filtration of Groundwater Samples
 SOG 17	Air Sampling
 SOG 18	Drum Sampling
SOG 19	Tank Sampling
SOG 110	Waste Pile Sampling
 SOG 111	Split Sampling
 SOG 112	Dioxin/PCB Sampling
 SOG 13	Laboratory Coordination

2. Sample Custody

 SOP 116	Documentation of Chain-of-Custody
 SOP II7	Documentation of Traffic Reports
 SOP II8	Documentation of Sample Tags
 SOP 119	Documentation of Sample Packaging and Shipping

3. Calibration Procedures and Frequency

/_	SOPIT	Use, Calibration, and Maintenance of the HNU PI-101
	SOP 12	Use, Calibration, and Maintenance of the Radiation Mini-Alert
	SOP 13	Use, Calibration, and Maintenance of the MSA Explosimeter
	SOP 14	Use, Calibration, and Maintenance of the MSA Oxygen Indicator
	SOP IS	Use, Calibration, and Maintenance of the Hach Model 19000
	SOP 16	Use, Calibration, and Maintenance of the OVA 128
	SOP 17	Use, Calibration, and Maintenance of the Photovac 10A10
	SOP 18	Use, Calibration, and Maintenance of the Air Sampling Equipment
	SOP 19	Use, Calibration, and Maintenance of the Omega TM PHH-49D

Data Acquisition/Technical Approach

All activities will be conducted according to the FIT 3 Regional Operations Manual.

/	SOP III	Documentation of Logbooks
_	SOP II 2	Documentation of Photographs
	SOP II3	Documentation of Telecons
	SOP II4	Documentation of Filing and Docketing
_	SOP 115	Documentation of Samples
	SOP III 1	Review of Technical Reports
	SOP III2	Report Format for Preliminary Assessments and Site Inspections
	SOP 1113	Reporting On-/Off-Site Activities
	SOP 1114	Completing Sample Logs
	SOP 1115	Completing Sample Data Summaries

Report/Product Requirements

The report will consist of a completed EPA Form T-2070-3 and a written narrative presenting further information obtained during the completion of the assignment.

Report/Product Review

The FITOM or designee will be responsible for the quality verification of the final report.



Check below to indicate the documents that will be generated in the course of the project (both deliverable and non-deliverable):

ONAL.

	Final Report		Laboratory Data
	Draft Report		Organic Traffic Reports
	Field Trip Report		Inorganic Traffic Reports
	Logbooks		Chain-of-Custody Forms
~	Photographs and Negatives		Sample Receipts
/	Well Questionnaires		Site Sampling Plan
~	Safety Plan	~	Sample Tags
	Site Safety Follow-Up Report		Airbills
	Task-Related Correspondence		
	Report Processing Forms		
~	Telecon Records		
	TDD		•
	EPA File Information		
	State File Information		
	Completion Document		

Distribution

The undersigned have received, read, and understood this work plan or have attended a pre-field meeting and have discussed the contents of this work plan (must be signed by all project personnel).

Name	<u>Date</u>		

TDD No.:	F3-	8806 TRIGINAL	
		Griconall	

SITE SAFETY PLAN

Site Name: ITT Grinnell	Contact: Mike Millhouse
Address: 1411 Lancaster Ave.	Phone Number: (717) 684-4400
Columbia, Pa. 17512	Other Contacts:
Purpose of Site Visit: Site investige	
Proposed Date of Work:	
Proposed Site Investigation Team: NUS Personnel	Responsibilities:
·	

TDD No.: F3-8804-GG;
Site Name: ITT Gunnell

Background Informations
Site Status:ActiveInactiveUnknown
Site Description (be specific, include topography, structures, etc.):
ITT Grinnell is located on Rt 462 in Columbia, PA. The site is
an acture foundary which includes an affect the main
plant, a galvanizing plant, and a waste water treatment plant.
The galvanizing plant consists of an acid pickling deportment and
a neutralization treatment area. Waster water is discharged from
the treatment plant to an active lagoon, and ultimately to
the adjacent steem. an older, inactive, carried lagoon
is located near the active lagoon.
Site History: Mant processes have unrained consistent since
faindary operations began in the late 1920's. It is
reported that unticated acidic rinos water and spent
pickling liquors were discharged to the older lagoon suon
to the initiation of the wasterwater treatment plan.
Monitoring used on previous site work or previous sampling data:
1/2 above packground How or mine-about readings were recorded
during the 1115 reconnaissance in March, 1988.
S

	· :			TDD No.: F3	-8806-06.
•				Site Name:	ITT Gunnell
	Hazard Evaluation				
	Waste Types:	<u>Liquid</u>	Solid	<u> ✓</u> Sludge	Vapor
	Characteristics:	∠Corrosive	Ignitable	Radioactive	
		Volatile	Toxic	Reactive	
		Unknown	Other		-
			• —		
·	Task: <u>residential</u>	well samplin	g Low	Medium	High
	Identification of Haz	ards/Hazard A	ssessments		
	There have been result of site a avoided	no reports o perations. C	of private we me	ul contaminati well water a	will be
	Task: (auger) Soi	1 sampling	Low 👱	Medium	High
	Identification of Haz	ards/Hazard As	ssessment:		
	Dumai contact avoided	with potent	rally contami	nated poil w	cell be
(Task: Upstream Identification of Haz if previous on contamination	/ Down Stream	H Low	Medium	High
	Identification of Haz	Samples ards/Hazard A	- /U/)	tential Sou de	imal hazard
Seletect 13	if previous on-	e ite disposi	of practices t	nave caused q	round water
SAMPLE	contamination	trom viano	ater Materia	als	7/4/28
EH. 7/6/83	Task:				
			Low	Medium	High
	Identification of Haz	ards/ nazard A	13622Weu11		
	OVERALL HAZARD	Serious	Moderate		
		<u>_kow</u>	Unknown		

3 of 17

TDD No.: F3.8806-06

Site Name: ITT Grinnell

Hazardous/Toxic Known or Suspected Materials	Concentration	Media	Toxic and Pharinacologic Effects	PEL, TLV, IDLH	Reactivity, Special Monitori Flammability Instrument	
Hydrochloric Acid (HeI)	unknaun	liquid	Eye, skin + respir. hazard. Corrosive to skin and mucus membranes.	PEL = 5ppm TLV = 5ppm IDLH = 100ppm	Highly mactive with most metals, corresive	
Sulfune Acid (HzSOy)	unknown	lequici	Eye, skin + respir. nazard/irritant Dermal contact causes blistering or burning Ingestion causes Palm. ederma.	PEC = Img/m3 TLV = 1 mg/m3 TOLH = 80 mg/m3	Highly mactive, corresive, incompatible wi organics, enlorates, carbides, fulminates, picrates + metals	
Sodium Hydroxide (NaOH)	ui7KNowi7	liquid	Gye, skin + nespir hazand	PEL = 2 mg/m³ TLV - unknown TOLH = 200 mg/m³	Incompatible with water, organic halogens, metals, + nitro compounds.	

TDD No.: F3 - 8806 - 06

Site Name: ITT Grinnell Clothing Other: Modifications Gloves Boots NA NA Nnu rdgs > bekgrnd at work site to hevel B GHE CARTICLE LIB RIR Butyl=B Cotton=C

REQUIRED LEVEL(S) OF PROTECTION:

Decon

Respiratory Name Task **PM** SSO **SMO** Surveillance (PA, site recon, etc.) IF HALL Kending Exceed Bretgound in the Ambient My ordat the Material being Upgrade to Level B SAMPLED If HNU readings exceed background, team members will note the readings in the logbook Non Shapling and move to an area where HNU readings do not exceed background. Samplers residential wells stream samples (+ background soil) ** Stream samples deleted from sampl plan 7/1/88 DT Other - auger sample

> Field=F Saranex=S

> > Tyvek=T

Cotton=C Latex=L Neoprene=N Viton V

Fireman's=F Latex=L Tyvek=T Work - W

	Site Name: ITT Grinnell
Proposed On-site Activities: On-site activities	tres well include the collection
af 1 augu sample, 2 stuam	samples 1 background soil
sample and 3-4 residential well	
(** stream samples deleted from	sampling plan 7/1/88 DT)
Manisoring Procedures	•
Monitoring Procedures: Site Monitoring Equipment:	
✓ HNU	TLD Badge
∠ OVA	∠ Radiation mini-alert
Photovac	Explosimeter
Draeger Tube & Pump	O _{2 meter}
	— °2 meter
Victoreen Radiation Detector Other:	
Other:	
Methods and Frequency of Surveillance: (Fo	or compounds > 10% PELs, see page 4)
Then will be continuous monutorio	ng of on-site actuation
with the Now or OUA, and the	mini-alut.
Monitoring Equipment Calibration:	
As per manufacturer's recomme every three days. Calibration of	endations, a field calibration is necessary once fates are recorded in the project logbook.
OVA As per manufacturer's recommendates a	endations, a field calibration is necessary eventure recorded in the project logbook.
Mini-Alert A battery check and a responsifice and will be made immediately field procedure will be document.	ise check were made prior to leaving the Fiately prior to instrument use in the field. To nted in the log book.
<u>Other</u>	

TDD No.: F3 - 8800 - TNG MAL

	TDD No.: F3-8806-06881
	Site Names ITT Grinnell
Decontamination and [Disposal:
	Personnel Decontamination Procedure: (X) level to be utilized
Level A -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit and hard hat removal, SCBA backpack removal, inner glove wash, inner glove removal, inner clothing removal, field wash redress.
Level B -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, SCBA backpack removal, suit and hard hat removal, inner glove removal, inner clothing removal, field wash, redress.
Level C -	Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit/safety boot wash, suit/safety boot rinse (Canister or Mask Change), safety boot removal, splash suit removal, inner glove removal, inner clothing removal, field, wash, redress.
Level D -	Segregated equipment drop, boot and glove wash, boot and glove rinse.
No personne	el decontamination is necessary.
Modification	s (specify): If work in upgraded to level B, use appropriate
Equipment Decontamir	nations all equipment will be deconned with an
	sh, tap water rimse, and DI water rinse
·	Investigation Derived Materials: all investigation duried
material will	be disposed properly.
IONIZING RADIATION	!: Normal background 0.01 to 0.02 mR/hr

7 of 17

*Note: Background 10-20 CPM on mini-alert

If greater than 2 mR/hr, evacuate site.

If less than 2 mR/hr, continue investigation with caution.

TDD No.:	F3 - 880	6-0 Carrie	
Site Name:	ITT C	brinnell	

SITE OPERATING PROCEDURES/SAFETY GUIDELINES

1.	Always observe the buddy system. Never enter or exit a site alone, and ne	ver
	work alone in an isolated area. Never wander off by yourself.	

- 2. Always maintain line-of-sight.
- 3. Practice contamination avoidance. Never sit down or kneel, never lay equipment on the ground, avoid obvious sources of contamination such as puddles, and avoid unnecessary contact with on-site objects.
- 4. No eating, drinking, or smoking outside the designated "clean" zone.
- 5. In the event PPE is ripped or torn, work shall stop and PPE shall be removed and replaced as soon as possible.
- 6. Be alert to any unusual changes in your own condition; never ignore warning signs. Notify Health and Safety Co-ordinator as to suspected exposures or accidents.
- 7. A vehicle will be readily available exclusively for emergency use. All FIT personnel going on site shall be familiar with the most direct route to the nearest hospital.
- 3. In the event of direct skin contact, the affected area shall be washed immediately with soap and water.
- 9. Copies of the health and safety plan shall be readily accessible at the command post.
- 10. Note wind direction. Personnel shall remain upwind whenever possible during on-site activities.
- 11. Never climb over or under refuse or obstacles. Use safety harness/safety lines when sampling lagoons, stream beds, and ravines with steep banks.
- 12. Hands and face must be thoroughly washed before eating, drinking, etc.
- 13. Any modifications to this safety plan <u>MUST</u> be approved by the RHSM or designee.

Special	Procedures:	a Heat st	uss monitor	ing will be	e performed	as
neede				0	,	
(3) E=	scope packs	will be ca	nud who	in an se	BA is not	in
	e (on-site					

		TDD No.: F3 - 8806	- 0 la
		Site Name: ITT Grin	nell
Confined Space	Entry		
عد	No attempt will be made to enter at other confined areas.	pandoned buildings, manhole	es, tanks, or an
_	Other:		
Medical Surveil	lance		•
<u>~</u>	No site specific medical surveillance	e is required for this task.	
	Medical surveillance will be as follow	ws:	
Personnel Moni			
_	Personnel monitoring will include on personnel monitoring is required.	ly the use of the TLD badge	. No further
_	Personnel monitoring will consist of	•	

HNU training

			TAYLOR	unulan	hasnoslo	0/2/09	2+15017	Brays	\	\	\	\	\
1001	Ş	ONIE	DAT		=			DATE	DATE	DATE	DATE	DATE	DATE
MIRODUCTION	40	18-61-5 18-51-11		88-SI-h	12-2-88	4-25.88	6-20-88						
samme													
DECONTAMMATION	-	\longrightarrow			\rightarrow	\rightarrow							
78	Ъ	1-10-86	>		6-2-87	4-25-88	->			·			
IST ALD	8	7-02-2	Î	1) - (0 - 8 (5	7	ļ	-						
	8	8-20-87	١	1.188	2-2-87	١	1			•			
SCBA REVIEW	7	88-1-2-h	9-17-87	∞	8-20-87	8 8-52-h	1-20-88						
IT TEST (Ultra-tuis))	12-14-88	18-L1-6	4-12-88	8-27-87	4-25-88	6-20-88						
IT TEST (Dustfoe)	0.5	Dat to	3-18-88	4-20-88	3-14-88	5-5-8x	Loved						
-							`						-
													7
	•						•						Chi al Rodj

TDD No.:	F3-8806-06-
	1,50

Site Name: TT Brinnell

EMERGENCY SITUATIONS

Air Releases or Fire/Explosion:

In the event of an unexpected air release or fire/explosion, on-site personnel will travel at a right angle to the upwind direction. The Site Safety Officer (SSO) will then account for all personnel and notify the proper emergency agencies.

In the event the SSO is unavailable, the Project Manager will assume these responsibilities.

Emergency Site Control:

In the event of an emergency, the SSO will discourage any unauthorized personnel from entering the site. If necessary, the SSO will contact the proper authorities.

Personnel Injury:

If on-site personnel require emergency medical treatment, the following steps will be taken:

- 1) Evaluate the nature of the injury.
- 2) Decontaminate to the extent possible prior to administration of first aid or movement to emergency facilities.

First Aid Proceduress

Skin Contact: Remove contaminated clothing. Wash immediately with

water. Use soap if available.

Inhalation: Remove from contaminated atmosphere. Artificial

respiration, if necessary. Transport to hospital.

Ingestion: Never induce vomiting on an unconscious person. Also, never

induce vomiting when acids, alkalis, or petroleum products are

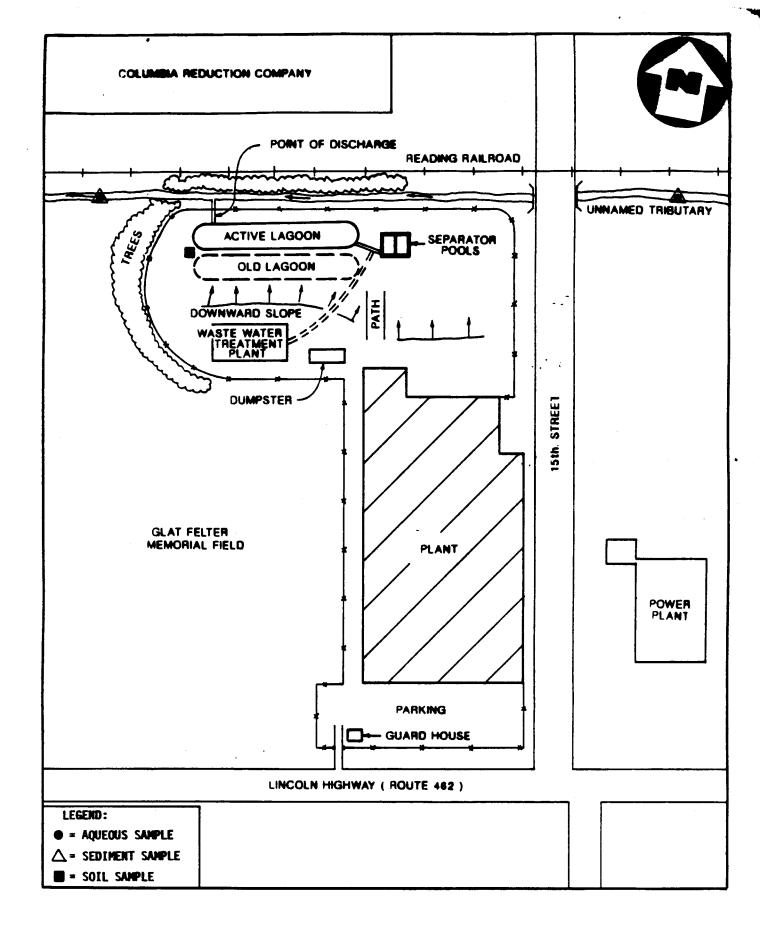
suspected. Contact the poison control center.

Equipment Failure: In the event that air monitoring equipment fails to operate, all personnel will exit the site immediately and notify the RHSM

or designee for further instructions.

11 of 17

	TDD No.:	F3-8806-06
	Site Name:	ETT Brinnell
Communication Procedures:		
(Horn blast, siren, etc.) is the emergence personnel should leave the Exclusion Zone.	y signal to	indicate that all
The following standard hand signals will be use	ed in case of	of failure of radio
communications:		
Hand gripping throat Out of air, Grip partner's wrist or Leave area i both hands around waist	mmediately	
Hands on top of head Need assist		
Thumbs up OK, I am all Thumbs down No, negati	•	erstand
Thumbs down outside the first transfer to the first transfer transfer to the first transfer transfer to the first transfer		
The following will be used on an "as-needed" basis:	NH	
Channel has been designated as the readio Exclusion Zone. All other on-site communications v	•	•
Telephone communication to the Command Post s practicable. The phone number is		ablished as soon as



PROPOSED SAMPLE LOCATION MAP

ITT GRINNELL, COLUMBIA, PA.

(NO SCALE)



Site Name: ITT Grinnall

	VOA Standards
acetone alcohol anhydrous* air (breathing) alconox amyl acetate (banana oil) carbon monoxide gas gasoline hexane hydrogen isopropyl alcohol magnesium perchlorate* mercuric acetate powder* methanol nitric acid nitrogren pH buffer 4.0 pH buffer 10.0 phosphoric acid* smoke tubes sodium hydroxide spray paint* stannic chloride sulfuric acid* 1,1,1-trichloroethane zinc acetate dihydrate HC1	benzene toluene carbon tetrachloride trans-1,2-dichloroethene* trichloroethene* tetrachloroethene* vinyl chloride o-xylene m-xylene p-xylene chloroform ethyl benzene

Signature



University of Pittsburgh

SCHOOL OF MEDICINE Department of Medicine Program in Oppupational Medicine

Emergency Physician Access Plan

NUS Corporation, Superfund Division

December, 1986

A. MONDAY THROUGH FRIDAY, 9:00 A.M. - 5:00 P.M.

Diai the (412) 648-3240 number. When answered state that:

- (1) you are calling from NUS Corporation;
- (2) this is an emergency call-

Program Staff will be alerted how to contact the physician designated to provide emergency covereage on that day. Collect calls will be accepted.

B. EVENINGS, WEEK-ENDS & HOLIDAYS:

Dial the (412) 648-3240 number. An operator from the answering service will answer the telephone. Do the following:

- (1) tell the operator that you are calling from NUS Corporation
- (2) tell the operator that this is an emergency call
- (3) give her <u>your</u> name
- (4) give her the telephone number where the physician is to call. Be certain that she has written the correct number (area code and seven digits)
- (5) if you do not receive a call back within 15 minutes, place a second call to (412) 648-3240

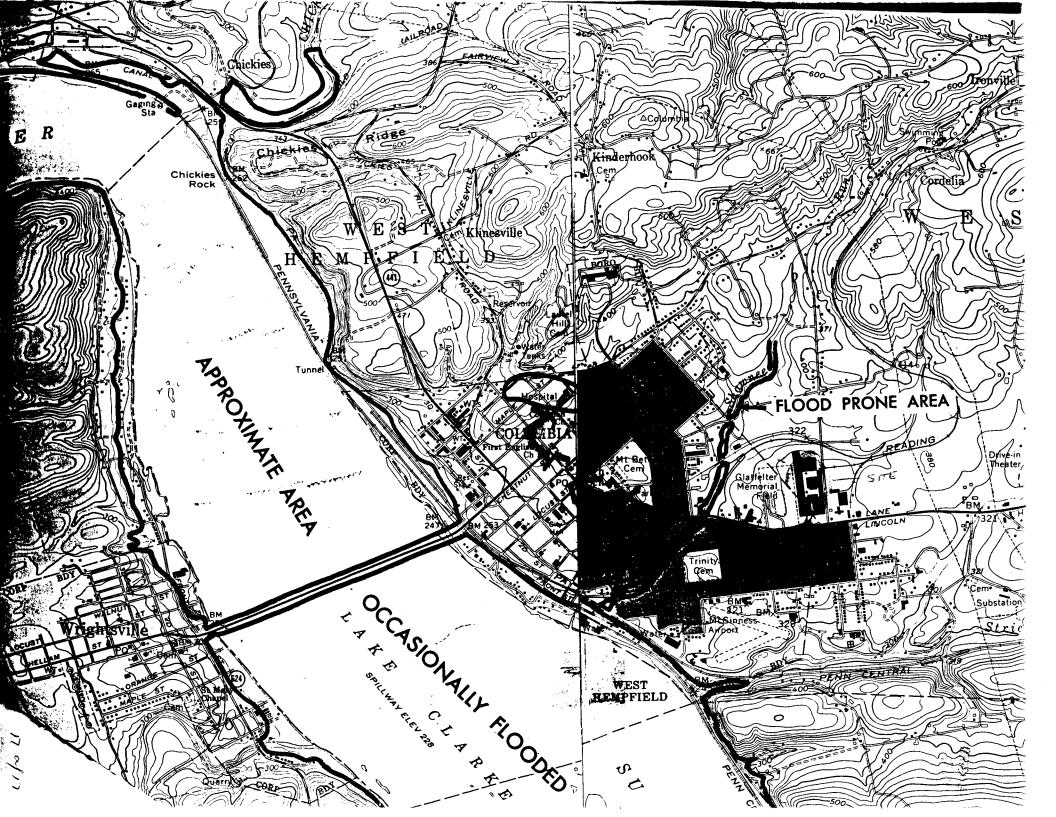
Collect calls will be accepted.

C. SITUATIONS WHERE EMPLOYEE REQUIRES IMMEDIATE TRANSPORT TO A HOSPITAL

If the situation is life-threatening, ie., cardiac arrest or person not breathing, call the emergency medical services system and transport the person to the nearest hospital with advanced life support capabilities.

After obtaining assistance as stated above, call the (412) 648-3240 number and follow the procedures in A or B as appropriate.

11. al 17





MSDS002: AIR

SYNONYM(S): None

MATHESON GAS PRODUCTS MATERIAL SAFETY DATA SHEET

32/0MAL 3²⁰ 002

PRODUCT IDENTIFICATION

D.O.T. SHIPPING NAME: Air, compressed

D.O.T. I.D. NUMBER: UN1002

HAZARD DATA

D.O.T. HAZARD CLASS: Nonflammable Gas

D.O.T. LABEL(S): Nonflammable Gas

PHYSICAL DATA

MOLECULAR WEIGHT: 28.96

CHEMICAL FORMULA: None

C.A.S. NUMBER: None

BOILING POINT: -194.35°C; -317.8°F

SPECIFIC VOLUME @ 1 ATM, 21.1°C: 0.830 m3/kg; 13.3 f+3/lb

DESCRIPTION: Air is a colorless, odorless, nonflammable gas mixture composed of approximately 79% nitrogen by volume and 21% oxygen by volume. It is compressed and shipped in high pressure cylinders. Unless specifically labeled it is not to be used for breathing purposes.

FIRE AND ENTERS

FLAMMABLE LIMITS IN AIR: Nonflammable

FIRE FIGHTING PROCEDURES: Air is non-lammable and as such does not create a fire lazard. However, cylinders that are appared to fire may rupture with visitent forces. They may be legal cool using a water spray applied from the maximum possible distance.

UNUSUAL FIRE AND EXPLOSION MEANOSE High procure of can greatly accorded to

PERMISSIBLE EXPOSURE LIMITS:

OSHA TWA: Not applicable

ACGIH TWA: Not app ! | cab for

ACUTE EFFECTS OF OVEREXPOSURE: Not Applicable

CHRONIC EFFECTS OF OVEREXPOSURE: Not Applicable

FIRST AND INFORMATION

Not applicable

REACTIVITY DATA

Air is a stable mixture.

Keep high pressure air away from cit; grease and readily ignitable materials. Under pressure it greatly accelerates combustions.

SPILL OR LEAK PROCEDURE

No special procedures are required. Compressed air is not hazardous except in the presence of oil, grease and other readily ignitable materials.

page 1 of 2 Revised: October 1985

AIR